What is claimed is:

- 1. A method comprising administering a therapeutically effective amount of an agent to a mammal which has an allergic or inflammatory disease, wherein said agent inhibits an activity or expression of a component of an arginine metabolic pathway in a tissue affected by the disease, and said component is not a nitric oxide synthase (NOS).
- 2. The method of claim 1, wherein the disease is a respiratory disease.
- 3. The method of claim 2, wherein the respiratory disease is asthma, chronic airway remodeling, or chronic obstructive pulmonary disease (COPD).
- 4. The method of claim 3, wherein said agent is capable of binding to the component or a polynucleotide encoding the component.
- 5. The method of claim 4, wherein said component is an arginase.
- 6. The method of claim 4, wherein said component is a cationic amino acid transporter.
- 7. The method of claim 4, wherein said component is downstream of an arginase in the pathway.
- 8. The method of claim 2, wherein said agent inhibits the expression of the component by RNA interference or an antisense mechanism.
- 9. The method of claim 8, wherein said agent encodes or comprises an siRNA capable of inhibiting the expression of ARG1 in said tissue by RNA interference.
- 10. The method of claim 8, wherein said agent encodes or comprises an siRNA capable of inhibiting the expression of CAT2 in said tissue by RNA interference.
- 11. The method of claim 2, wherein said agent is α -diffuoromethylornithine.
- 12. The method of claim 2, wherein said agent is lysine or a cationic polypeptide.
- 13. The method of claim 1, wherein the mammal is a human.
- 14. The method of claim 13, wherein said human has asthma or COPD, and said component is an arginase or a cationic amino acid transporter, and wherein said agent is capable of binding to said component or a polynucleotide encoding said component.
- 15. A method for identifying an agent for treating an allergic or inflammatory disease, comprising:

contacting a molecule with a tissue affected by asthma or another allergic or inflammatory disease, wherein said molecule is capable of binding to a non-NOS component of an arginine metabolic pathway or to a polynucleotide encoding said component; and

determining if said molecule is capable of ameliorating or eliminating a syndrome or phenotype associated with said asthma or disease.

- 16. The method of claim 15, wherein said molecule is selected or produced based on a structure-based rational drug design or based on screening a compound library.
- 17. The method of claim 15, wherein said component is an arginase or a cationic amino acid transporter.
- 18. A method, comprising:

detecting an expression profile of at least one gene in a biological sample of a mammal; and

comparing said expression profile to a reference expression profile of said at least one gene to determine if the mammal has or is at risk for an allergic or inflammatory disease,

wherein said one gene encodes a non-NOS component of an arginine metabolic pathway.

- 19. The method of claim 18, wherein the disease is asthma.
- 20. A pharmaceutical composition comprising a pharmaceutically-acceptable carrier and an agent capable of inhibiting an activity or expression of a non-NOS component of an arginine metabolic pathway.